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SECTION 15
ENTERPRISE AND NETWORK MANAGEMENT SYSTEMS

15.1 INTRODUCTION

This section identifies basic requirements for enterprise and network management systems. This section does not specify requirements for how an enterprise or network management system shall display performance data on a user interface, nor the data elements a management system must collect from a Unified Capabilities (UC) product. The individual Unified Capabilities Requirements (UCR) sections describe requirements as to what data elements (e.g., alarms, performance, and status) a UC product is required to send to a network management system for performance and status monitoring.

15.2 MINIMUM

Enterprise and network management systems must do the following:

EMS-000010 [**Required**] Meet all Information Assurance and Security Technical Implementation Guideline (STIG) requirements.

EMS-000020 [**Required**] Must interoperate with UC products' commercial off-the-shelf (COTS) Network Management (NM) interface/system for monitoring and commanding the UC product.

EMS-000030 [**Required**] Leverage COTS interface of UC products to be managed in a secure manner.

EMS-000040 [**Required**] Must be capable of exchanging data with other network management systems for information sharing purposes.

15.2.1 Connectivity to Monitored Network Elements

The management system must have the capability to establish the following protocols for communication with a UC product:

EMS-000050 [**Required**] Receiving Simple Network Management Protocol (SNMP) version 3 (SNMPv3) traps from a monitored product.

EMS-000060 [**Required**] Sending SNMP [Management Information Base (MIB)] poll requests to a monitored product.

EMS-000070 [**Required**] Collecting and mediating Call Detail Records (CDRs) and Internet protocol (IP) Detail Records (IPDRs) from a monitored product in a secure manner.

EMS-000080 [**Required**] Securing the connection using Transport Layer Security (TLS).

15.2.2 Segregation of Network Management Data Into Categories

The Element Message System (EMS) must be capable of receiving and analyzing the following NM data categories:

EMS-000090 [**Required**] System Events.

EMS-000100 [**Required**] Security Events.

EMS-000110 [**Required**] Performance Events (5-minute polls).

EMS-000120 [**Required**] Performance (15-minute polls).

EMS-000130 [**Required**] CDRs.